

Product datasheet for **MG214774**

Gcnt4 (NM_001166065) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt4 (NM_001166065) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcnt4
Synonyms:	C2gnt3; Gm73; Gm279
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG214774 representing NM_001166065
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATATTCAGATGTTGCTTTAAATACACTCTCCAGCAGAACTCTTCATCCTCCTCTTAACCTGT
 GGCTGTTCTCCTGTTGAAGCTCCTAAATGTGGGCAGGCTCCTCTCCCTCAAAGAGACATTTACTTAGT
 TGAATACTCCCTAAGTACATCACATTTGTGAGGAACAGGTTCCCCGAGTCTGGGGATGCAGCCAGGGAC
 AACGTTAACTGCTCGGGGTCTACGAGCAGGACCTTTGGAAATCGGCAAGAGTCTAGAAATCAGAAGAC
 GGAGCATCATCGACTTGGAGGACGGTGTGTCGTGGCGATGACAAGTACTGTGACGTTTATCAGACCTT
 AAGGCAGTACCATGAAAAGCTGGTTTCAAGGGAGGAAGAGGACTTCCCATAGCCTATTCGCTGGTCGTC
 CACAAAGATGCCATTATGGTTGAGCGTTGATCCGAGCTATTTACAACCAGCACAACTTTACTGCATCC
 ATATGACCTGAAGTACCGGACAGTTCAAAGCTGCCATGAACAACCTAGCTAAGTCTCCCAATAT
 CTTTCATCGCTTCAAATAGAGACTGTGGAGTATGCTCACATATCCAGGCTCCAGGCCGATTGGAAGTGC
 TTATCAGACCTCCTCAAGTCTTCGGTTCAGTGGAGTACGTCATCAACCTCTGTGGGCAAGACTTTCCCC
 TAAAGTCAAATTTGAATTAGTGACAGAGCTGAAAAGTCTCCAAGGAAGGAATATGTTAGAGACGGTGAG
 ACCCCCCAGTGCTAAGACGGAGAGGTTACCTACCATCATGAGCTCAGACAGGTGCCCTTATGATTATATG
 AAGCTACCAGTAAAGACGAACGCTCTCCAAGGGGCACCCCTCATAACATTCAGGTATTTGTGGGCAGTG
 CCTATTTTGTTTAAGTCGAGCATTGTTAAATATATTTTCAACAGCTCCCTCGTTGAAGACTTTTTTGC
 CTGGTCTAAAGATACATATTCCTGACGAGCACTTTTGGCCACCTTAATCCGGATACCAGGAATACCC
 GGGGGAATTTCCAGTTCATCTCAGGACGTGTCTGACCTGCAGAGTAAGACCCGCCTGGTCAAATGGTTTT
 ACTACGAAGCTTTCTCTACCCCAATTGCCTGGCTCTCACCTCGAAGTGTGTATTTACGGAGCTGC
 AGAACTACGGTGGCTCTTAAACGAAGGGCATTGGTTTGCTAATAAGTTTGATTCTAAAGTTGACCCCATC
 TTGATGAAATGTCTGGCAGAAAACTTGAAGAGCAACAGAGAAAGTTGATTGCTTTGCTTCAGAGAAGT
 TCATGACAGAGGGAACCCGCCAAAGCCACACATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG214774 representing NM_001166065
 Red=Cloning site Green=Tags(s)

MKIFRCCFKYTLQQLFILLTLWLFLSLKLLNVGRLLFPQRDIYLVEYSLSTSPFVRNRFPESGDAARD
 NVNCSGVYEHEPLEIGKSLEIRRRSIIDLEDGDVVAMTSDCDVYQTLRQYHEKLVSREEDFPIAYSLVV
 HKDAIMVERLIRAIYNQHNLVYIHYDLKSPDTFKAAMNNAKCFPNIFIAASKLETVEYAHISRLQADWNC
 LSDLLKSSVQWKYVINLCGQDFPLKSNFELVTELKSLQGRNMLETVRPPSAKTERFTYHHELVRQVPYDYM
 KLPVKTNVSKGAPPHNIQVFGSAYFVLSRAFVKYIFNSSLVEDFFAWSKDTYSPDEHFWATLIRIPGIP
 GGISSSSQDVSDLQSKTRLVKWFYYEGFLYPNCTGSHLRSVCIYGAAELRWLLNEGHWFANKFDSKVDPI
 LMKCLAELKLEEQRKLIALSSEKFMTEGTRQSHTL

TRTRPLE - GFP Tag - V

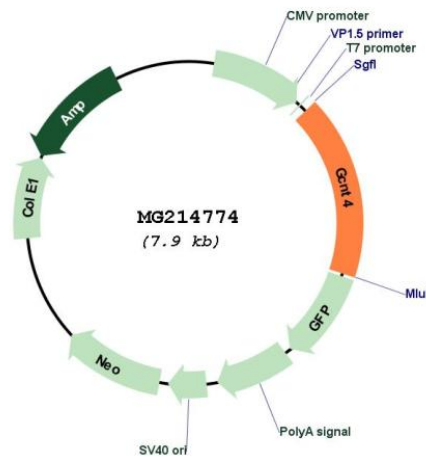
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001166065

ORF Size: 1365 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001166065.2
RefSeq Size:	5107 bp
RefSeq ORF:	1368 bp
Locus ID:	218476
UniProt ID:	E9Q649
Cytogenetics:	13 D1
Gene Summary:	Glycosyltransferase that mediates core 2 O-glycan branching, an important step in mucin-type biosynthesis. Does not have core 4 O-glycan or I-branching enzyme activity. [UniProtKB/Swiss-Prot Function]